PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agen | t's file reference | FOR FURTHER ACTIO | าง | See Form PCT/IPEA/416 |
|---------------------------|------------------------------|---|---------------------------------------|---|
| 047956/288189 | | FOR FURTHER ACTION | JIX | See Point PC1/II BAV-10 |
| International application | ation No. | International filing date (da) | y/month/year) | Priority date (day/month/year) |
| PCT/US04/25682 | • | 09 August 2004 (09.08.2004 | !) | 07 August 2003 (07.08.2003) |
| International Patent | Classification (IPC) | or national classification and I | PC | |
| IPC(7): A61M 29/0 | 0 and US Cl.: 606/10 | 8, 623/1.12 | | |
| Applicant | | | | |
| ALVELUS, INC. | | | | · |
| | | tional preliminary examinate Article 35 and transmitted | - | lished by this International Preliminary coording to Article 36. |
| 2. This R | EPORT consists of | a total of $\frac{7}{2}$ sheets, include | ling this cover shee | et. |
| 3. This re | port is also accomp | panied by ANNEXES, comp | prising: | 5 |
| a. 🔀 | (sent to the applica | ant and to the International | Bureau) a total of | sheets, as follows: |
| | this report a | • | ctifications authori | ave been amended and are the basis of zed by this Authority (see Rule 70.16 |
| | that goes be | - | | nority considers contain an amendment ation as filed, as indicated in item 4 of |
| b |] (sent to the Inte | rnational Bureau only) a to | tal of (indicate type | e and number of electronic carrier(s)) |
| | | e Supplemental Box Rel | | thereto, in electronic form only, as ce Listing (see Section 802 of the |
| 4. This r | eport contains indic | cations relating to the follow | ving items: | |
| | Box No. I | Basis of the report | | |
| | Box No. II | Priority | | |
| | | Non-establishment of opinion of applicability | on with regard to n | ovelty, inventive step and industrial |
| | Box No. IV | Lack of unity of invention | | |
| | | | · · · · · · · · · · · · · · · · · · · | th regard to novelty, inventive step or one supporting such statement |
| | Box No. VI | Certain documents cited | - | |
| | Box No. VII | Certain defects in the intern | ational application | |
| | Box No. VIII | Certain observations on the | international appli | ication |
| Date of submiss | ion of the demand | | Date of completion | on of this report |
| 27 September 200 |)5 (27.09.2005) | | 01 February 2006 (| 01.02.2006) |
| | g address of the IPEA | / US | Authorized officer | 1 1 |
| Mail Sto | p PCT, Attn: IPEA/US | | | 1 |
| Commiss P.O. Box | sioner for Patents t 1450 | | Michael Thaler | Jugure Lug |
| Alexand | ria, Virginia 22313-1450 | 0 | Telephone No. 170 |) ugnua eliby 3) 308-0858 |
| Facsimile No. (57 | (1) 273-3201 | 1 0005 | reichnotte Mo. (70 | |

Form PCT/IPEA/409 (cover sheet)(April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

| International application No. | |
|-------------------------------|-------------|
| PCT/HS04/25682 | |

| Box | k No. | I Basis of the report |
|-----|---|---|
| 1. | With | regard to the language, this report is based on: |
| | | the international application in the language in which it was filed. |
| | | a translation of the international application into <u>English</u> , which is the language of a translation furnished for the purposes of: |
| | | international search (under Rules 12.3 and 23.1(b)) |
| | | publication of the international application (under Rule 12.4(a)) |
| | | international preliminary examination (under Rules 55.2(a) and/or 55.3(a)) |
| | | |
| | to the | regard to the elements of the international application, this report is based on (replacement sheets which have been furnished a receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not xed to this report): |
| | | the international application as originally filed/furnished |
| | \boxtimes | the description: |
| | | pages 1-16 as originally filed/furnished |
| | | pages* NONE received by this Authority on pages* NONE received by this Authority on |
| | | |
| | Image: Control of the | the claims: |
| | | pages 19-30 as originally filed/furnished pages* NONE as amended (together with any statement) under Article 19 |
| | | pages* NONE as amended (together with any statement) under Article 19 pages* 18 received by this Authority on 27 September 2005 (27.09.2005) |
| | | pages* NONE received by this Authority on pages* NONE received by this Authority on |
| | \boxtimes | the drawings: |
| | | pages 1-8 as originally filed/furnished |
| | | pages* NONE received by this Authority on |
| | | pages* NONE received by this Authority on |
| | | a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. |
| 3. | | The amendments have resulted in the cancellation of: |
| | | the description, pages |
| | | the claims, Nos. |
| | | the drawings, sheets/figs |
| | | the sequence listing (specify): |
| | | any table(s) related to the sequence listing (specify): |
| 4. | | This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). |
| | | the description, pages |
| | | the claims, Nos. |
| | | the drawings, sheets/figs |
| | | the sequence listing (specify): |
| | | any table(s) related to the sequence listing (specify): |
| | | |
| * | fiten | n 4 applies, some or all of those sheets may be marked "superseded." |

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/25682

| Statement | | | |
|---|--------|--------------|----------------------------|
| Novelty (N) | Claims | 1-86 | YE |
| | Claims | | NO. |
| Inventive Step (IS) | Claims | 33-60, 84-86 | YE |
| and the stop (15) | | 1-32, 61-83 | N |
| Y 1 . 1 1 4 4 4 4 4 7 1 1 1 1 1 1 1 1 1 1 1 1 | ~ · | | |
| Industrial Applicability (IA) | Claims | | YI |
| | Claims | NONE | N |
| nbination of an outer tubular member with groov ims 1-86 meet the criteria set out in PCT Article made or used in industry. | | · | the subject matter claimed |
| | | | |
| NEW CITATIONS | | • | |
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CLAIMS:

What is claimed is:

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- A therapeutic medical appliance for introduction into a cavity in the 1 1. 2 anatomy of a patient, the medical appliance comprising a tube with first and second ends and the tube defining a cavity extending between the first and second 3 ends; and a first self-sealing membrane disposed over the first end. 4 The therapeutic medical appliance of claim 1, wherein tube forms a 2. 1 scaffolding such that when pressure is exerted along varying points of the 2 extension of the appliance, the appliance does not undesirably foreshorten or 3 4 elongate. 3. The therapeutic medical appliance of claim 2, wherein along the 1 extension of the appliance, the scaffolding forms geometrical patterns. 2 The therapeutic medical appliance of claim 2, wherein the 1 4. 2 3
 - scaffolding further comprises a coating coupled with the scaffolding, the coating of sufficient thickness to prevent the medical appliance from becoming epithelialized when installed in the desired portion of the patient's anatomy.
 - The therapeutic medical appliance of claim 4, wherein the coating 5. does not inhibit flexing or radial expansion of the medical appliance.
- The therapeutic medical appliance of claim 5, wherein the coating is 1 6. coupled with the medical appliance about the first and second ends thereof. 2

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